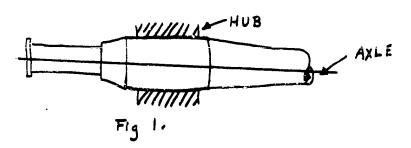
CLASSIFICATION CONFIDENTIAL/SECUR	
CENTRAL INTELLIGENCE AGEN INFORMATION REP	
COUNTRY Latvia SUBJECT Adjustable Axles/Tasmare Ship Repair Yards	DATE DISTR. 25 Nov 1952 50X1-HUM
PLACE ACQUIRED	NO. CF ENCLS.
DATE ACQUIRED DATE OF IN	SUPPLEMENT TO REPORT NO. 50X1-HUM
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	50X1-HUM

 A difference of 3.504 inches in the gauge of railroad tracks in Western Europe and the Soviet area created the problem of making axle adjustments. Soviet tracks had a gauge of 1324 mm whereas Western Europeen tracks had a gauge of 1435 mm. This difference necessitated an adjustment of 1.752 inches per wheel.



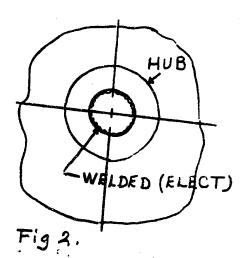
2. The Sailroad Administration of Lotvia had technical standards for wheel and axle sets which showed the Linimum pressure between axle and hub. When the pressure between the hub and the axle became too low, the wheel had to be removed. The inside of the hub hole had to be welded electrically and turned out on a right interval diameter (Fig 2). A wheel so prepared was then ready for assembly.

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3. A two-axle freight car standing on the assembly line was lifted by means of pneumetic jacks. The wheel and axle sets were rolled out and sent to the wheelaxle shop. This was to avoid mixing up axle bearings; the same bearings had to be used on the same axle. The wheel and axle sets could be interchanged, but the thickness of the rim of the whools had to be the sas (Fig 3).



If the freight car were equipped with brekes, the brake triangle had to be changed accordingly and the brakes re-invested (Fig 4)



Fig 4. CBRAKE TRIANGLE

The number of num required to purfers this operation depended upon the degree of skill available and the technical equipment on hand.

The length of time required to whomse wieth for narrow or broad gauge tracks also depended on the technical equipment of hand. It was usually between 100 and 150

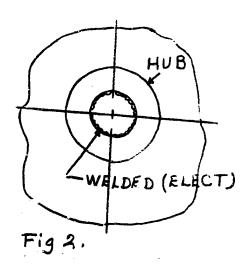
There was regraded to he were turned to he but could be welded. Scantines the pressure between the axis pressure between the axis pressure between the axis pressure and the surface of the axis was scratched. Such axis is a large and used on lighter weight care. (The Buropean two-superity from the axis.) Differences in capacity were diameters of the axiss. arlo cars r determined ?

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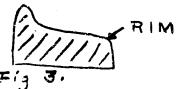
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3. A two-axle freight car standing on the assembly line was lifted by means of pneumatic jacks. The wheel and axle sets were rolled out and sent to the wheel axle shop. This was to svoid mixing up axle bearings; the same tearings had to be used on the same axle. The wheel and axle sets could be interchanged, but the thickness of the rim of the wheels had to be the same (Fig 3).



If the freight car were equipped with brakes, the brake triangle had to be changed accordingly and the brakes re-located (Fig 4).



- 4. The number of men required to perform this operation depended upon the degree of skill available and the technical equipment on hand.
- 5. The length of time required to change width for narrow or broad gauge tracks also depended on the technical equipment on hand. It was usually between 10° and 150 hours.
- 6. There was no limit to the number of times the same wheel and axle set could be regauged because the hub could be welded. Sometimes the pressure between the axle and the hub was too great and the surface of the axle was scratched. Such axles were turned down on a lathe and used on lighter weight cars. (The European two-axle cars ranged in capacity from 10 to 20 tons.) Differences in capacity were determined by the diameters of the axles.

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7. The adjustable axle may still be in use on Soviet railways. There is no way to determine whether adjustable axles were discarded or what type of 50X1-HUM substitute is now in use. The method described above was in use in us

